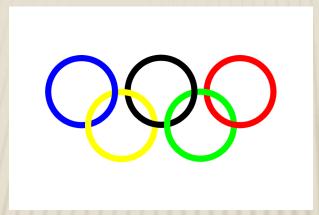
COLLAPSED ATHLETE



Womack Army Medical Center
Family Medicine - Sports Medicine
Chris Pappas, MD Attending
Lisa M. Harris, DO PGY-3
Michael Rossi, MD PGY-3
Chase Grames, DO PGY-2

MARINE CORPS MARATHON OCTOBER 25, 2009

WASHINGTON, D.C.



"THE PEOPLE'S

MARINE CORPS MARATHON VITAL STATISTICS

- Marathon 26.2 miles
 - 30,000 registered
 ☐ 21,000 completed
 - Minimum 14:00 min/mile pace
- 10 K 6.2 miles
- 10 Aid Stations 8 throughout course and 2 at the finish line.
 - DOD Level 1 (BLS-level) care—no ACLS meds.

AID STATION



AID STATION



MARINE CORP MARATHON SYMPOSIUM ALGORITHM (LAST UPDATED 2007)

Francis G. O'Connor, MD, FACSM

Medical Director, Consortium for Health And Military Performance (CHAMP) Associate Professor of Military and Emergency Medicine Uniformed Services University of the Health Sciences

Bruce Adams, MD

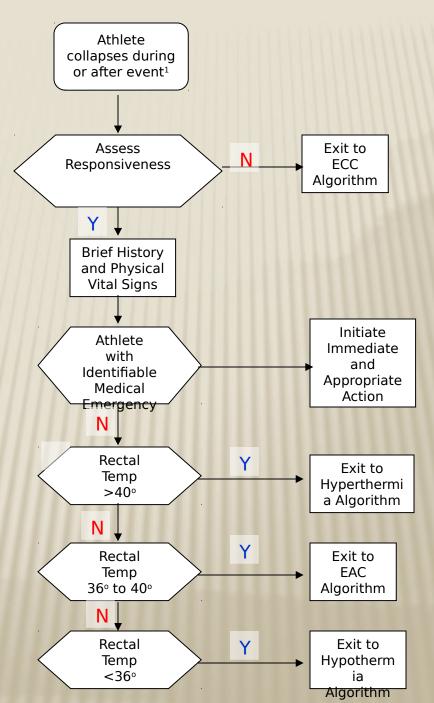
Medical Director, Marine Corps Marathon Director, Sports Medicine Naval Medical Clinic, Quantico, VA Scott Pyne, MD

Former Medical Director, Marine Corps Marathon Director, Sports Medicine US Naval Academy, MD

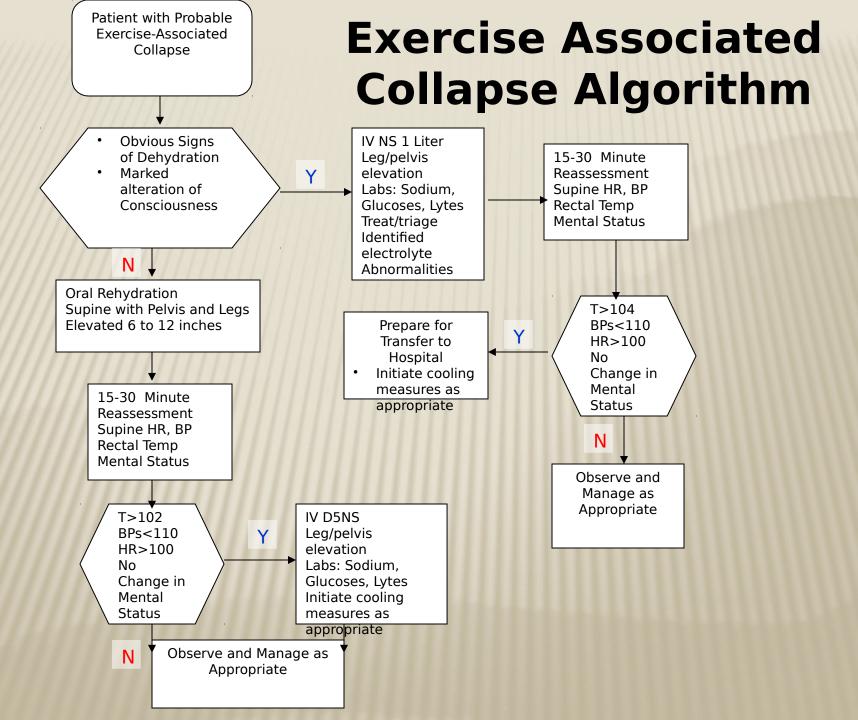
Fred Brennan, DO

Director, Sports Medicine Clinic Seacoast Orthopedics and Sports Medicine Durham, New Hampshire

The Collapsed Athlete Algorithm

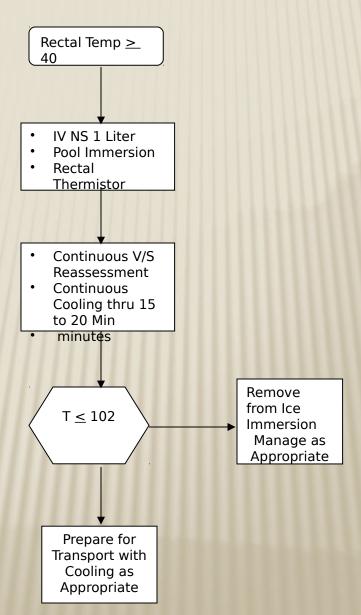






Heat Illness Algorithm





MCM: CASE 1

40 y/o Female that finished the race, stumbles and falls on to your cot and says:

"My husband is a physician, I need an IV!"

What do you do?



MCM CASE 1

Exercise Associated Collapse

- Obvious Signs of dehydration
 - No salt stains on shirt
 - 2 sec cap refill
 - Mucous membranes are moist
- Marked Alteration of Consciousness
 - Answers all questions appropriately

MCM CASE 1: EXERCISE ASSOCIATED COLLAPSE

- Oral rehydration
 - H20, Gatorade, Broth, Crackers, Banana
- Elevation
 - Patient supine with pelvis and legs elevated 12-24 inches above the heart/chest
- Reassess in 15-20 minutes
 - stable

MCM: CASE 2

26 yo Female brought in by stretcher and dropped at your station.

What do you do?



MCM CASE 2: COLLAPSED ATHLETE ALGORITHM

- Assess Responsiveness
 - Knows her name, where she is
 - She finished the 10K run
- Brief History and Physical
 - No medical problems However....
 "This happened to me during my last race"
 - Mental Status
 - Laying on the cot, her eyes keep closing as if she is tired, and opens them when you ask her questions
 - When asked how old she was, she couldn't remember
- Vitals



RAPID COOLING ICE WATER IMMERSION



RAPID COOLING ICE WATER IMMERSION

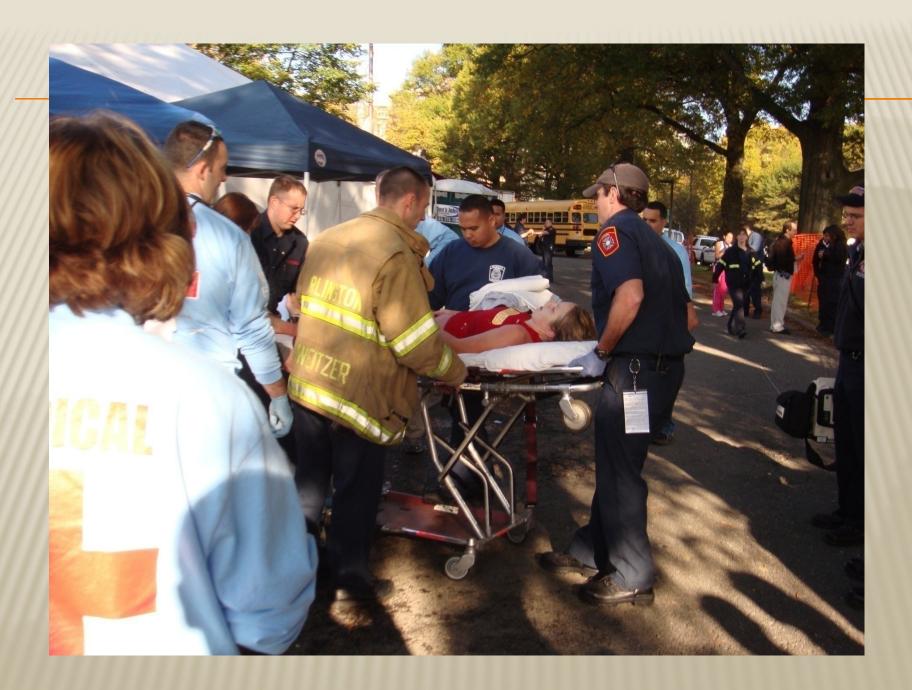


MCM CASE 2: HYPERTHERMIA

Continuous rectal temp via rectal probe

Start IV

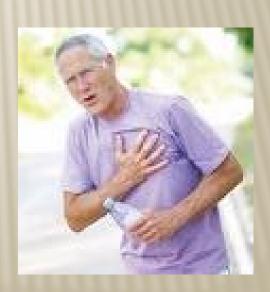
- Temp below 102 after 15 minutes
 - Remove patient from ice bath to prevent overshooting and secondary risk of hypothermia



MCM CASE 3

54 y/o male comes in to the tent after finishing the race in 5hrs 10 min, complaining of chest pain.

What do you do?

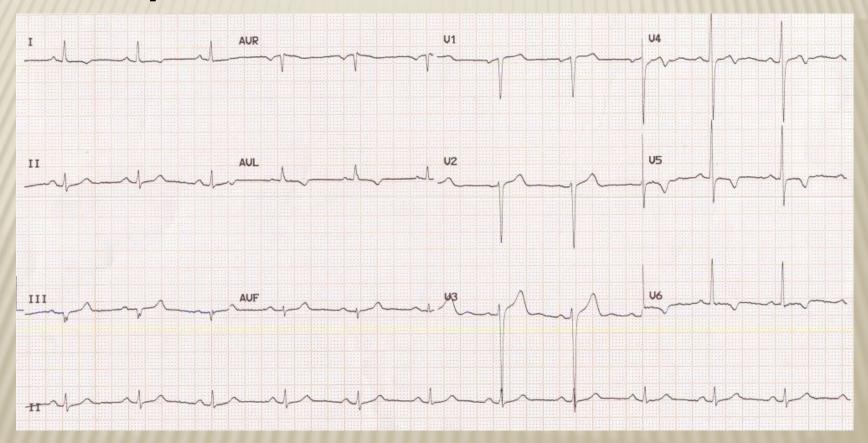


MCM CASE 3: CHEST PAIN

- History and Physical
 - Medical History
 - MI with stent placement 3 years ago "This chest pain feels just like when I had my heart attack"
- 12 lead EKG
- Oxygen
- ASA
- SL Nitroglycerin
- IV Access

12 LEAD EKG

Intern- please read



What do you do?

EMERGENCY ROOM [TRANSPORT!



MCM CASE 4

23 y/o Female finished the marathon in under 5 hours, brought in by stretcher and had passed out at the finish line.

What do you do?

MCM CASE 4: COLLAPSED ATHLETE

Assess Responsiveness

• Answers questions appropriately, but she wants to leave, doesn't want to be assessed.

Brief History and Physical

- No medical problems
- "Boyfriend" is in law school, he won't leave her side
- Policeman had to restrain him!

Vitals

When vitals are taken and rectal temp Patient becomes COMBATIVE !!

RAPID COOLING ICE WATER IMMERSION



RAPID COOLING ICE WATER IMMERSION



Once core temp was below 106 she calmed down



MCM: CASE 5

22 y/o Female that walks in covered in bloody stool.

What do you do?

BLOODY STOOL



MCM: CASE 5

- Assess Responsiveness
 - Answers questions appropriately
 - Trying to qualify for Boston Marathon (she did)
 - Naval Academy Sophomore
- Brief History and Physical
 - Recent PRK surgery 3 weeks ago.
 - Medications: Motrin 800 mg TID since the surgery.
- Vitals
 - Stable

MCM: CASE 5

What do you think?



ISCHEMIC COLITIS?



MARINE CORPS MARATHON OCTOBER 25, 2009

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